

09/23/93

SPE RESPONSE FOR CERTIFICATE OF CORRECTION

Paper No.: _____

DATE : 11-2-05

TO SPE OF : ART UNIT 1731

SUBJECT : Request for Certificate of Correction on Patent No. 6851280

A response is requested with respect to the accompanying request for a certificate of correction.

Please complete this form and return with file, within 7 days to:

Certificates of Correction Branch - PK 3-922 South Tower 9A22
Palm location 7580 - Tel. No. 305-8309

With respect to the change(s) requested, correcting Office and/or Applicant's errors, should the patent read as shown in the certificate of correction? No new matter should be introduced, nor should the scope or meaning of the claims be changed.

Check claims.

Thank You For Your Assistance

Chris Young
Certificates of Correction Branch

The request for issuing the above-identified correction(s) is hereby:

Note your decision on the appropriate box.

Approved

All changes apply.

Approved in Part

Specify below which changes **do not** apply.

Denied

State the reasons for denial below.

Comments:

SPE

Art Unit

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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Page 1 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : **6,851,280 B2**
DATED : **February 8, 2005**
INVENTOR(S) : **Franz OTT, Otmar BECKER, and Karin NAUMANN**

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page, Column 2, after the Abstract, delete "19 Claims" and insert -- 20 Claims --.

Delete all of the claims as printed, that is, from Line 38 of Column 21 (beginning with "1. In a...") through the last line of Column 24 ("ponents in conventional quantities.", and insert the following new set of claims renumbered as Claims 1-20:

-- 1. A method of making a halogen lamp by hot forming, said method comprising the steps of:
(a) producing a melt of molten glass;
(b) passing said molten glass along a tool to form a glass body having an interior and an exterior;
(c) selecting a gas having an oxygen

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**NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130**

PATENT NO. **6,851,280 B2**

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content selected to treat a portion of a glass material of said halogen lamp from an interior surface of said halogen lamp to a desired depth from said interior surface sufficient to decrease darkening by tungsten deposition on said interior surface of said treated portion of said glass material during operation of said halogen lamp;

(d) providing a stream of said gas to contact a portion of said interior of said glass body;

(e) inserting a filament in said glass body to produce said halogen lamp; and

(f) injecting halogen gas into said glass body to produce said halogen lamp.

2. The method according to Claim 1, wherein said desired depth of step (c) is in the range of 150nm to 2000nm from said interior surface.

3. The method according to Claim 2,

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wherein at least one of (i) and (ii):

(i) said step of passing said molten glass along a tool to form a glass body comprises passing said molten glass along a tool which is configured to withstand a temperature of more than 1000°C, and which is one of:

coated at least partly with platinum or a platinum-containing alloy; and

made of platinum or a platinum-containing alloy; and

(ii) said step of providing a stream of said gas comprises providing a stream of said gas through a guide structure which is configured to withstand a temperature of more than 1000°C, and which is one of:

coated at least partly with platinum or a platinum-containing alloy; and

made of platinum or a platinum-containing alloy.

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4. The method according to Claim 3,
 wherein:
 said step of providing a stream of gas
 comprises providing a stream of gas having an
 oxygen content in the range of one of:
 up to 80 vol.%; and
 10 to 30 vol.%;
 said step of providing a stream of gas
 comprises providing a stream of gas containing
 at least one additional gas in addition to oxygen
 in a predetermined amount, said at least one
 additional gas being from the group consisting
 of nitrogen, inert gases, CO₂, SO₂, and H₂O;
 and
 at least one of (A), (B), (C), and (D):
 (A) said glass melt has a viscosity in
 the range of 10⁴ to 10⁵ dPas;
 (B) said glass melt has a temperature
 of more than one of: 1000°C and 1200°C;

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(C) said glass melt is one of: a
borosilicate glass melt, a neutral glass
melt, and an aluminosilicate glass melt;
(D) said glass melt has one of the
following compositions (Da) and (Db) (in
wt.% on an oxide basis):

(Da) SiO ₂	40-75
Al ₂ O ₃	10-27
B ₂ O ₃	0-15
MgO	0-10
CaO	0-12
SrO	0-12
BaO	0-30
ZnO	0-10
ZrO ₂	0-5
Li ₂ O + Na ₂ O + K ₂ O	0-7
TiO ₂	0-5.5
P ₂ O ₅	0-9.0

as well as optional fining agents

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 is hereby corrected as shown below:

**and coloring components in
 conventional quantities;**

(Db) SiO ₂	60-80
Al ₂ O ₃	2-10
B ₂ O ₃	5-20
MgO	0-8
CaO	0-12
SrO	0-8
BaO	0-12
ZnO	0-10
ZrO ₂	0-5
Li ₂ O + Na ₂ O + K ₂ O	2-12

as well as optional fining agents
 and coloring components in
 conventional quantities.

5. The halogen lamp made according to
 the method of Claim 1.
6. A method of making a finished glass
 object, comprising one of: lamp bulbs, ampoules,

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is hereby corrected as shown below:

bottles, vials, cylinder ampoules, pharmaceutical
primary packaging, containers for medical and
pharmaceutical products, reagent containers, test
tubes, burets, pipettes, titration cylinders, tubular
parts for chemical equipment construction, and
flat glass, by hot forming, said method
comprising the steps of:

(a) producing a melt of molten glass;
 (b) forming a glass body;
 (c) selecting a gas having an oxygen
content of one of: >0 to 20 vol.% and 22 to 100
vol.%, wherein said oxygen content is selected
to decrease alkali ions, in a portion of a glass
material of said finished glass object, from an
exposed surface of said finished glass object to
a desired depth of between 150nm to 2000nm
from said exposed surface to decrease reactivity
of said portion of said glass material to the
desired depth from said exposed surface;

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is hereby corrected as shown below:

(d) providing a stream of said gas to
contact a portion of a surface of said glass
body; and
(e) finishing said glass body to form said
finished glass object.
7. The method according to Claim 6,
wherein at least one of (i) and (ii):
(i) said step of forming a glass body
comprises passing said molten glass along a
tool which is configured to withstand a
temperature of more than 1000°C, and which is
one of:
coated at least partly with platinum or
a platinum-containing alloy; and
made of platinum or a platinum-
containing alloy; and
(ii) said step of providing a stream of said
gas comprises providing a stream of said gas
through a guide structure which is configured to

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withstand a temperature of more than 1000°C,
 and which is one of:
 coated at least partly with platinum or
 a platinum-containing alloy; and
 made of platinum or a platinum-
 containing alloy.
 8. The method according to Claim 7,
 wherein:
 said step of providing a stream of gas
 comprises providing a stream of gas having an
 oxygen content in the range of one of:
 22 to 80 vol.%; and
 10 to 20 vol.%;
 said step of providing a stream of gas
 comprises providing a stream of gas containing
 at least one additional gas in addition to oxygen
 in a predetermined amount, said at least one
 additional gas being from the group consisting
 of nitrogen, inert gases, CO₂, SO₂, and H₂O;

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

and

at least one of (A), (B), (C), and (D):

(A) said glass melt has a viscosity in the range of 10^4 to 10^5 dPas;

(B) said glass melt has a temperature of more than one of: 1000°C and 1200°C;

(C) said glass melt is one of: a borosilicate glass melt, a neutral glass melt, and an aluminosilicate glass melt;

(D) said glass melt has one of the following compositions (Da) and (Db) (in wt.% on an oxide basis):

(Da) SiO ₂	40-75
Al ₂ O ₃	10-27
B ₂ O ₃	0-15
MgO	0-10
CaO	0-12
SrO	0-12
BaO	0-30

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is hereby corrected as shown below:

ZnO	0-10
ZrO ₂	0-5
Li ₂ O + Na ₂ O + K ₂ O	0-7
TiO ₂	0-5.5
P ₂ O ₅	0-9.0

as well as optional fining agents
and coloring components in
conventional quantities;

(Db) SiO ₂	60-80
Al ₂ O ₃	2-10
B ₂ O ₃	5-20
MgO	0-8
CaO	0-12
SrO	0-8
BaO	0-12
ZnO	0-10
ZrO ₂	0-5

Li₂O + Na₂O + K₂O 2-12
as well as optional fining agents

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and coloring components in
conventional quantities.

9. The finished glass object made
according to the method of Claim 6.

10. A method of making a finished glass
object, comprising one of: lamp bulbs, ampoules,
bottles, vials, cylinder ampoules, pharmaceutical
primary packaging, containers for medical and
pharmaceutical products, reagent containers, test
tubes, burets, pipettes, titration cylinders, and
tubular parts for chemical equipment
construction, by hot forming, said method
comprising the steps of:

(a) producing a melt of molten glass;
(b) forming a glass body;
(c) selecting a gas having an oxygen
content selected to decrease alkali ions, in a
portion of a glass material of said finished glass
object, from an exposed surface of said finished

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glass object to a desired depth from said exposed surface sufficient to decrease reactivity of said portion of said glass material to the desired depth from said exposed surface;

(d) providing a stream of said gas to contact a portion of a surface of said glass body; and

(e) finishing said glass body to form said finished glass object.

11. The method according to Claim 10, wherein at least one of (i) and (ii):

(i) said step of forming a glass body comprises passing said molten glass along a tool which is configured to withstand a temperature of more than 1000°C, and which is one of:

coated at least partly with platinum or a platinum-containing alloy; and
made of platinum or a platinum-

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containing alloy; and

(ii) said step of providing a stream of said gas comprises providing a stream of said gas through a guide structure which is configured to withstand a temperature of more than 1000°C, and which is one of:

coated at least partly with platinum or a platinum-containing alloy; and

made of platinum or a platinum-containing alloy.

12: The method according to Claim 11, wherein said desired depth of step (c) is in the range of 150nm to 2000nm from said exposed surface.

13. The method according to Claim 12, wherein said step of providing a stream of gas comprises providing a stream of gas having an oxygen content in the range of one of:

up to 80 vol.%; and

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO : 6,851,280 B2
 DATED : February 8, 2005
 INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

10 to 30 vol.%.

14. The method according to Claim 13,
wherein:

said step of providing a stream of gas
comprises providing a stream of gas containing
at least one additional gas in addition to oxygen
in a predetermined amount, said at least one
additional gas being from the group consisting
of nitrogen, inert gases, CO₂, SO₂, and H₂O;
and

wherein at least one of (A), (B), (C), and
(D):

(A) said glass melt has a viscosity in
the range of 10⁴ to 10⁵ dPas;

(B) said glass melt has a temperature
of more than one of: 1000°C and 1200°C;

(C) said glass melt is one of: a
borosilicate glass melt, a neutral glass
melt, and an aluminosilicate glass melt;

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO : **6,851,280 B2**
 DATED : **February 8, 2005**
 INVENTOR(S) : **Franz OTT, Otmar BECKER, and Karin NAUMANN**

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

(D) said glass melt has one of the following compositions (Da) and (Db) (in wt.% on an oxide basis):

(Da) SiO ₂	40-75
Al ₂ O ₃	10-27
B ₂ O ₃	0-15
MgO	0-10
CaO	0-12
SrO	0-12
BaO	0-30
ZnO	0-10
ZrO ₂	0-5
Li ₂ O + Na ₂ O + K ₂ O	0-7
TiO ₂	0-5.5
P ₂ O ₅	0-9.0

as well as optional fining agents and coloring components in conventional quantities;

(Db) SiO₂ 60-80

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO : 6,851,280 B2
 DATED : February 8, 2005
 INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

Al ₂ O ₃	2-10
B ₂ O ₃	5-20
MgO	0-8
CaO	0-12
SrO	0-8
BaO	0-12
ZnO	0-10
ZrO ₂	0-5
Li ₂ O + Na ₂ O + K ₂ O	2-12

as well as optional fining agents

and coloring components in

conventional quantities.

15. The glass object made according to
the method of Claim 10.

16. A method of making a finished glass
object comprising flat glass, by hot forming, said
method comprising the steps of:

- (a) producing a melt of molten glass;
- (b) forming a glass body;

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

(c) selecting a gas consisting of at least one member of the group consisting of: oxygen, nitrogen, inert gases, CO₂, SO₂, and H₂O, and having an oxygen content selected to treat a portion of a glass material of said finished glass object, from an exposed surface of said finished glass object to a desired depth from said exposed surface sufficient to decrease reactivity of said portion of said glass material to the desired depth from said exposed surface; and

(d) providing a stream of said gas to contact a portion of a surface of said glass body.

17. The method according to Claim 16, wherein said desired depth of step (c) is in the range of 150nm to 2000nm from said exposed surface.

18. The method according to Claim 17, wherein at least one of (i) and (ii):

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UNITED STATES PATENT AND TRADEMARK OFFICE
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PATENT NO : **6,851,280 B2**
 DATED : **February 8, 2005**
 INVENTOR(S) : **Franz OTT, Otmar BECKER, and Karin NAUMANN**

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

(i) said step of forming a glass body comprises passing said molten glass along a tool which is configured to withstand a temperature of more than 1000°C, and which is one of:

coated at least partly with platinum or a platinum-containing alloy; and
 made of platinum or a platinum-containing alloy; and

(ii) said step of providing a stream of said gas comprises providing a stream of said gas through a guide structure which is configured to withstand a temperature of more than 1000°C, and which is one of:

coated at least partly with platinum or a platinum-containing alloy; and
 made of platinum or a platinum-containing alloy.

19. The method according to Claim 18,

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UNITED STATES PATENT AND TRADEMARK OFFICE
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It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

wherein:

said step of providing a stream of gas
comprises providing a stream of gas having an
oxygen content in the range of one of:

up to 80 vol.%; and
10 to 30 vol.%; and

at least one of (A), (B), (C), and (D):

(A) said glass melt has a viscosity in
the range of 10^4 to 10^5 dPas;

(B) said glass melt has a temperature
of more than one of: 1000°C and 1200°C;

(C) said glass melt is one of: a
borosilicate glass melt, a neutral glass
melt, and an aluminosilicate glass melt;

(D) said glass melt has one of the
following compositions (Da) and (Db) (in
wt.% on an oxide basis):

(Da) SiO_2	40-75
Al_2O_3	10-27

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B ₂ O ₃	0-15
MgO	0-10
CaO	0-12
SrO	0-12
BaO	0-30
ZnO	0-10
ZrO ₂	0-5
Li ₂ O + Na ₂ O + K ₂ O	0-7
TiO ₂	0-5.5
P ₂ O ₅	0-9.0

as well as optional fining agents
and coloring components in
conventional quantities;

(Db) SiO ₂	60-80
Al ₂ O ₃	2-10
B ₂ O ₃	5-20
MgO	0-8
CaO	0-12
SrO	0-8

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DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

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is hereby corrected as shown below:

BaO 0-12
ZnO 0-10
ZrO₂ 0-5
Li₂O + Na₂O + K₂O 2-12
as well as optional fining agents
and coloring components in
conventional quantities.

20. The glass object made according to
the method of Claim 16. --

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